CONTENTS OF VOLUME 10

Volume 10 Number 1

Editorial

J. W. Hadden, P. Mullen and F. Spreafico — i — IJI Reports: a new rapid publication format

J. R. Stevenson and R. Taylor — 1 — Effects of glucocorticoid and antiglucocorticoid hormones on leukocyte numbers and function

M. F. Ackermann and P. S. Morahan — 7 — Neutrophil involvement in effects of diethylstilbestrol and strontium 89 on macrophage activation by *Propionibacterium acnes*

Jun Hou and Wu Fei Zheng — 15 — Effect of sex hormones on NK and ADCC activity of mice

S. Jahn, H.-D. Volk, R. Grunow, S. T. Kiessig, F. Hiepe, E. Apostoloff and R. Von Baehr — 23 — A myelopeptide from unstimulated bone marrow cells with immunomodulatory activity in lymphocyte cultures from healthy donors and patients with hypogammaglobulinemia and active systemic lupus erythematosus

N. J. Snoeij, M. Bol-Schoenmakers, A. H. Penninks and W. Seinen — 29 — Differential effects of tri-*n*-butyltin chloride on macromolecular synthesis and ATP levels of rat thymocyte subpopulations obtained by centrifugal elutriation

A. Kharazmi, H. Nielsen and P. O. Schiøtz — 39 — *N*-acetylcysteine inhibits human neutrophil and monocyte chemotaxis and oxidative metabolism

S. Arinaga, T. Akiyoshi and H. Tsuji — 47 — Augmentation of the generation of OK-432 activated killer cells after a single dose of mitomycin C in cancer patients

S. B. Fink, M. Finiasz, L. Sterin-Borda, E. Borda and M. M. E. de Bracco — 53 — Lymphocyte-induced stimulation of the contractile response of the heart

W. Luini, S. Sozzani, F. D'Alessandro, H. X. Zhang and F. Spreafico — 59 — Stimulation of natural host defence mechanisms in rodents by Nesosteine

J. Seifert, L. Šebestová and K. Mašek — 67 — The stimulatory effect of muramyl dipeptide (MDP) on the proliferation processes in parenchymal organs of rats

B. Alarcón, J. M. Redondo, H. Bugany, L. Carrasco and M. Fresno — 73 — Inhibition of natural killer cytotoxicity by extracellular ppp(A2′p5′)$_n$A oligonucleotides

A. Ducatenzeiler and J. Menezes — 81 — Human gamma interferon induction by staphylococcal protein A: effector cells, kinetics and the effect of prostaglandin, indomethacin, ibuprofen and aspirin

Volume 10, Number 1 (*Cont'd*)

An Invitation to Join the International Society for Immunopharmacology i

General Information and Instructions to Authors iii

Volume 10 Number 2

Research Papers

S. Sozzani, F. D'Alessandro, F. Capsoni, W. Luini, W. Barcellini, G. Guidi and F. Spreafico 93 *In vitro* modulation of human monocytes functions by RU 41740 (Biostim®)

H. Endoh, K.-I. Matsunaga, C. Yoshikumi, Y. Kawai, T. Suzuki and K. Nomoto 103 Production of antiserum against antitumor protein-bound polysaccharide preparation, PSK (Krestin®) and its pharmacological application

K. Rodgers, D. Ellefson, W. Girgis, L. Scott and G. S. diZerega 111 Effects of tolmetin sodium dihydrate on normal and postsurgical peritoneal cell function

F. Capsoni, F. Minonzio, E. Venegoni, A. M. Ongari, P. L. Meroni, G. Guidi and C. Zanussi 121 *In vitro* and *ex vivo* effect of RU41740 on human polymorphonuclear leukocyte function

B. M. Lesourd, J. C. Vincent-Falquet, D. Deslandes, M. Musset and R. Moulias 135 Influenza vaccination in the elderly: improved antibody response with Imuthiol (Na diethyldithiocarbamate) adjuvant therapy

R. S. Tomar, B. R. Blakley and W. E. DeCoteau 145 Antibody producing ability of mouse spleen cells after subacute dietary exposure to T-2 toxin

D. A. Hart 153 Lithium potentiates antigen-dependent stimulation of lymphocytes only under suboptimal conditions

Short Communications

Y. Roche, M. Fay and M.-A. Gougerot-Pocidalo 161 Enhancement of interleukin 2 production by quinolone-treated human mononuclear leukocytes

D. S. Senior and J. T. B. Shaw 169 *In vitro* effects of fluconazole (UK-49,858) and ketoconazole on mouse lymphocyte proliferation and on *Candida* blastospore destruction by human polymorphonuclear leukocytes

Volume 10, Number 2 (*Cont'd*)

Immunotoxicology

M. J. Myers, R. H. Blanton and P. H. Bick — 177 — Inhibition of IL-2 responsiveness following exposure to benzo(a)pyrene is due to alterations in accessory cell function

C. J. Grossman, C. L. Mendenhall and G. A. Roselle — 187 — Alcohol and immune regulation. I. *In vivo* effects of ethanol on concanavalin A sensitive thymic lymphocyte function

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 3

Research Papers

A. J. Pinto, P. S. Morahan and M. A. Brinton — 197 — Comparative study of various immunomodulators for macrophage and natural killer cell activation and antiviral efficacy against exotic RNA viruses

M. Ito, F. Tanabe, A. Sato, Y. Takami and S. Shigeta — 211 — A potent inhibitor of protein kinase C inhibits natural killer activity

G. A. Dos Reis, A. F. Nóbrega and P. M. Persechini — 217 — Stage-specific distinctions in potassium channel blocker control of T-lymphocyte activation

A. Tsicopoulos, P. Lassalle, M. Joseph, A. B. Tonnel, T. Thorel, J. P. Dessaint and A. Capron — 227 — Effect of disodium cromoglycate on inflammatory cells bearing the Fc epsilon receptor type II ($Fc_{\varepsilon}RII$)

R. Ghio, V. Pistoia, M. Romagnoli, P. D'Elia and G. P. Boccaccio — 237 — Inhibition of phytohemagglutinin (PHA) induced human T-cell colonies by methylprednisolone

Shu-Kuang Hu, Y. L. Mitcho and N. C. Rath — 247 — Effect of estradiol on interleukin 1 synthesis by macrophages

E. J. Kucharz, S. Sierakowski, N. D. Staite and J. S. Goodwin — 253 — Mechanism of lithium-induced augmentation of T-cell proliferation

E. M. Spiers, A. Tavendale, A. MacConnachie and J. Swanson Beck — 261 — The effect of non-steroidal anti-inflammatory drugs on phytohaemagglutinin stimulated lymphocytes: relevance to possible therapeutic immunosuppression by fenclofenac

Volume 10, Number 3 (*Cont'd*)

V. Colizzi, P. Cazzola and P. Mazzanti — 271 The combined administration of thymomodulin and interleukin 2 reverses T-cell unresponsiveness in mice infected with *Mycobacterium bovis*-BCG

A. R. Goeptar, J. de Groot, M. Lang, R. G. L. van Tol and R. J. Scheper — 277 Suppressive effects of transdermal clonidine administration on contact hypersensitivity reactions in guinea pigs

H. Friedman, R. C. Butler, S. Specter and A. Nowotny — 283 Non-toxic endotoxin polysaccharide induces soluble mediators which potentiate antibody production by murine retrovirus-suppressed splenocytes

C. Leclerc, E. Deriaud, M. P. Schutze and L. Chedid — 293 Prevention of low dose streptozotocin induced diabetes by muramyl dipeptide

R. Ghio, A. Scordamaglia, P. D'Elia, G. Pizzorno, M. Romagnoli, G. Ciprandi and G. W. Canonica — 299 Inhibition of the colony-forming capacity of human T-lymphocytes exerted by theophylline

Immunotoxicology

Research Papers

C. G. Orosz, N. E. Zinn, L. P. Sirinek and R. M. Ferguson — 305 *In vivo* mechanisms of alloreactivity—IV. Cyclosporine differentially impairs accumulation of donor-reactive CTL but not donor-reactive alloantibody in murine sponge matrix allografts

D. L. Maccubbin, J. A. Whitman, N. Taniguchi, K. F. Mace, M. J. Ehrke and E. Mihich — 317 Comparison of adriamycin induced immunomodulation with that of the noncardiotoxic anthracycline 5-iminodaunorubicin

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 4

Research Papers

J. Becker and R. J. Grasso — 325 Suppression of yeast ingestion by dexamethasone in macrophage cultures: evidence for a steroid-induced phagocytosis inhibitory protein

S. Ikeda, Y. Kumazawa, K. Sai, C. Nishimura, M. Nakatsuka, J. Y. Homma, A. Yamamoto, M. Kiso and A. Hasegawa — 339 Immunopharmacological activities of chemically synthesized lipid A-subunit analogue GLA-27 combined with muramyl dipeptide via spacers of different carbon chain length

Volume 10, Number 4 *(Cont'd)*

Y. Shoenfeld, H. Teplizki, D. Buskila, J. Luedemann and W. Gross	347	Immunoglobulin secretion of mononuclear cells induced by various mitogens
S. Fernandez-Gallardo, E. Cano, P. Braquet and M. Sanchez Crespo	353	Role of paf-acether in the mediation of pathophysiological responses to aggregated immunoglobulins. Studies with the platelet-activating factor receptor antagonist BN 52021
D. C. Henderson, R. G. Edwards, B. J. Weston and J. M. Dewdney	361	Immunological studies on paroxetine, a novel anti-depressant drug
S. W. Burchiel, W. M. Hadley, S. L. Barton, R. H. Fincher, L. D. Lauer and J. H. Dean	369	Persistent suppression of humoral immunity produced by 7,12 dimethylbenz(a)anthracene (DMBA) in B6C3F1 mice: correlation with changes in spleen cell surface markers detected by flow cytometry
P. O. Ogunbiyi, P. D. Conlon, W. D. Black and P. Eyre	377	Levamisole-induced attenuation of alveolar macrophage dysfunction in respiratory virus-infected calves
A. U. J. Berg, D. P. Baron and P. A. Berg	387	Immunomodulating properties of cianidanol on responsiveness and function of human peripheral blood T-cells and K-cells
Y. Kumazawa, H. Takimoto, S.-I. Miura, C. Nishimura, A. Yamada, T. Kawakita and K. Nomoto	395	Activation of murine peritoneal macrophages by intraperitoneal administration of a traditional Chinese herbal medicine, xiao-chai-hu-tang (Japanese name: shosaiko-to)
D. L. Williams, E. R. Sherwood, I. W. Browder, R. B. McNamee, E. L. Jones and N. R. Di Luzio	405	Pre-clinical safety evaluation of soluble glucan
M. Ikuzawa, K. Matsunaga, S. Nishiyama, S. Nakajima, Y. Kobayashi, T. Andoh, A. Kobayashi, M. Ohhara, Y. Ohmura, T. Wada, and C. Yoshikumi	415	Fate and distribution of an antitumor protein-bound polysaccharide PSK (Krestin®)
M. Marcoli, G. Ricevuti, A. Mazzone, M. Bekkering, S. Lecchini and G. M. Frigo	425	Opioid-induced modification of granulocyte function
L. Athlin, L. Domellöf and B. Norberg	435	Therapeutic concentrations of melphalan do not affect yeast cell phagocytosis by monocytes
H. Becker and K. Helmke	439	Inosiplex enhances the growth of Epstein–Barr nuclear antigen-positive B-cells from patients with rheumatoid arthritis and infectious mononucleosis

Volume 10, Number 4 (*Cont'd*)

H. Fujita, K. Ogawa, M. Ikuzawa, S. Muto, M. Matsuki, S. Nakajima, M. Shimamura, M. Togawa, C. Yoshikumi and Y. Kawai — 445 Effect of PSK, a protein-bound polysaccharide from *Coriolus versicolor*, on drug-metabolizing enzymes in sarcoma-180 bearing and normal mice

Y. Yagi and S. Yagi — 451 Immunotherapy of patients with terminal-stage malignant tumors with an immunopotentiator OK-432—a comparison of SU-PS test-responding and -nonresponding patients

G. Ciprandi, G. Cipro, F. Paolieri, D. Venuti, A. Scordamaglia and G. W. Canonica — 463 Fenoterol effects on the *in vitro* immune response

Short Communication

J. Watson, D. Godfrey, W. H. Stimson, J. J. F. Belch and R. D. Sturrock — 467 The therapeutic effects of dietary fatty acid supplementation in the autoimmune disease of the MRL-mp-1pr/1pr mouse

Immunotoxicology

Research Paper

R. Stiller-Winkler, T. Radaszkiewicz and E. Gleichmann — 475 Immunopathological signs in mice treated with mercury compounds—I. Identification by the popliteal lymph node assay of responder and nonresponder strains

Short Communications

Y. Kawakami, T. W. Klein, C. Newton, J. Y. Djeu, S. Specter and H. Friedman — 485 Suppression by delta-9-tetrahydrocannabinol of interleukin 2-induced lymphocyte proliferation and lymphokine-activated killer cell activity

G. Renoux, M. Renoux and J.-M. Guillaumin — 489 Immunopharmacology and immunotoxicity of zinc diethyldithiocarbamate

Announcement — 495 The Society for Leukocyte Biology (a Reticuloendothelial Society) 25th National Meeting

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 5

Research Papers

V. Ruszala-Mallon, Yang-i Lin, F. E. Durr and Bosco Shang Wang	497	Low molecular weight immunopotentiators
C. Moog, Bang Luu, J.-P. Beck, L. Italiano and P. Bischoff	511	Studies on the immunosuppressive properties of 7,25-dihydroxycholesterol—I. Reduction of interleukin production by treated lymphocytes
P. Metz, H. Hof and S. Kathariou	519	Inhibitory effect of tetracycline and doxycycline on resistance of mice to infection with a tetracycline-resistant strain of *Listeria monocytogenes*
R. Bertini, M. Bianchi, P. Villa and P. Ghezzi	525	Depression of liver drug metabolism and increase in plasma fibrinogen by interleukin 1 and tumor necrosis factor: a comparison with lymphotoxin and interferon
F. Zavala and M. Lenfant	531	Ca^{2+}-channel blockers modulate the oxidative burst induced with arachidonic acid in macrophage-like P $388D_1$ cells. Interaction with peripheral benzodiazepines
M. Bowles, S. C. Johnston, D. D. Schoof, P. R. Pentel, and S. M. Pond	537	Large scale production and purification of paraquat and desipramine monoclonal antibodies and their Fab fragments
N. Inamura, K. Nakahara, Y. Kuroda, I. Yamaguchi, H. Aoki and M. Kohsaka	547	Effect of *Nocardia rubra* cell wall skeleton on interleukin 1 production from mouse peritoneal macrophages
G. Serebrinsky, M. Palermo, J. Geffner, M. Giordano and M. Isturiz	555	Opposite effects of amines on lymphocyte- and monocyte-mediated ADCC
A. M. Genaro and E. Borda	563	Alloimmune B-lymphocytes modify the myocardium contractility-inducing release of SRS-A
G. A. Cremaschi and L. Sterin-Borda	569	Biological effects and cyclic AMP production during molecular histocompatibility antigen and beta-adrenoceptor interactions
M. G. Goodman	579	Induction of interleukin 1 activity from macrophages by direct interaction with C8-substituted guanine ribonucleosides
T. Otsuka, S. Okamura, N. Ohhara, M. Harada, S. Hayashi, S. Yamaga, F. Omori and Y. Niho	587	Stimulatory effects of Bestatin on human B-cell colony formation
J. A. Vilpo, T. Veromaa and E. Eerola	593	Effect of cytosine arabinoside on the human immunosystem: metabolism and cytotoxicity studied with mitogen-stimulated normal blood lymphocytes *in vitro*

Volume 10, Number 5 (*Cont'd*)

S. S. Botros, A. A. Metwally and M. T. Khayyal — 601 — Comparative effect of tiaprofenic acid and piroxicam alone and as adjuvants to antibilharzial therapy on pulmonary granuloma in unsensitized mice

L. A. Radov, D. Kamp, L. A. Trusso, D. Sloane, R. P. Julien, C. M. Clemens and R. J. Murray — 609 — The immunological profile of a new immunomodulatory agent, oxamisole

R. Scorza, M. Vanoli, C. Coppola, A. Cigognini, G. Fabio and C. Zanussi — 619 — Effects of cyclosporin A on *in vitro* lymphocyte response to autologous or allogeneic stimulation: influence of HLA phenotypes

Immunotoxicology

Research Paper

G. L. Warner and D. A. Lawrence — 629 — The effect of metals on IL-2-related lymphocyte proliferation

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 6

Research Papers

M. T. Kenny, J. K. Dulworth, H. L. Torney, Wen-Dar Cheng, S. L. Roberds and M. C. Graham — 639 — Effect of the antiviral compound MDL 20,610 on some aspects of murine immune function

C. J. O'Brien, K. T. Nouri-Aria, J. E. Hegarty, S. Vento, A. L. W. F. Eddleston and R. Williams — 651 — *In vitro* effect of TP-1 (a calf thymic extract) on suppressor T-cell function of patients with autoimmune chronic active hepatitis

J. B. Polson, R. F. Lockey, S. C. Bukantz, S. Lowitt, J. J. Krzanowski Jr and A. Szentivanyi — 657 — Effects of ketotifen on the responsiveness of peripheral blood lymphocyte β-adrenergic receptors

G. Migliorati, L. Cannarile, R. B. Herberman and C. Riccardi — 665 — Role of interferons in natural killer cell generation from primitive bone marrow precursors

J. G. M. Scharenberg, G. T. Rijkers, L. J. M. Spaapen, E. A. H. Toebes, G. Rijksen, M. Duran, G. E. J. Staal and B. J. M. Zegers — 675 — Different pathways for deoxyguanosine toxicity in T-lymphocytes of various developmental stages

Volume 10, Number 6 *(Cont'd)*

M. P. Fuggetta, G. Graziani, A. Aquino, S. D'Atri and E. Bonmassar — 687 — Effect of hydrocortisone on human natural killer activity and its modulation by beta interferon

Hong-Xiang Zhang, S. Sozzani, F. D'Alessandro, W. Luini, A. Vecchi and F. Spreafico — 695 — Modulation by suramin of NK and monocytic cell-mediated cytotoxicity in human and murine cells

P. E. Poubelle, S. Bourgoin, F. Marceau, A. D. Beaulieu and P. Borgeat — 709 — Studies on the effects of disease-modifying antirheumatic drugs on lipoxygenase product synthesis in human neutrophils *in vitro*

K. M. Connolly, V. J. Stecher, E. Danis, D J. Pruden and T. LaBrie — 717 — Alteration of interleukin-1 production and the acute phase response following medication of adjuvant arthritic rats with cyclosporin-A or methotrexate

W. Englberger, U. Hadding, E. Etschenberg, E. Graf, S. Leyck, J. Winkelmann and M. J. Parnham — 729 — Rosmarinic acid: a new inhibitor of complement C3-convertase with anti-inflammatory activity

T. Thorel, M. Joseph, A Capron, H. Vorng and M. Pascal — 739 — *In vitro* and *in vivo* immunomodulation by LF 1695 of human and rat macrophages and platelets in schistosomiasis

G. Nilsson and S. Ahlstedt — 747 — Altered lymphocyte proliferation of immunized rats after neurological manipulation with capsaicin

A. Sodhi and S. M. Singh — 753 — Increased capacity of lymphocytes to lyse tumor cells *in vitro* and production of lymphotoxins after cisplatin treatment

Immunotoxicology

Research Papers

P. A. Thiem, L. K. Halper and J. C. Bloom — 765 — Techniques for assessing canine mononuclear phagocyte function as part of an immunotoxicologic evaluation

G. W. Cox, C. G. Orosz, M. G. Lewis, R. G. Olsen and R. H. Fertel — 773 — Evidence that 8-methoxypsoralen (8-MOP) is a T-lymphocyte immunomodulatory agent

Announcements — 783 — Three Cancer Meetings

784 — Fourth International Conference on Immunotoxicology

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 7

Research Papers

M. Pagé, N. Bejaoui, B. Cinq-Mars and P. Lemieux — 785 Optimization of the tetrazolium-based colorimetric assay for the measurement of cell number and cytotoxicity

S. Wada, P. H. Naylor, C. W. Naylor and A. L. Goldstein — 795 Improved ELISA to measure thymosin α_1: comparison of whole and absorbed antisera

U. Grohmann, P. Puccetti, M. C. Fioretti, M. G. Mage and L. Romani — 803 Cell-mediated immunity to chemically xenogenized tumors—III. Generation of monoclonal antibodies interfering with reactivity to novel antigens

M. K. Selgrade, M. J. Daniels, G. R. Burleson, L. D. Lauer and J. H. Dean — 811 Effects of 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene and cyclosporin A on murine cytomegalovirus infection: studies of resistance mechanisms

G. Roscetti, C. M. Ausiello, C. Palma, P. Gulla and L. G. Roda — 819 Enkephalin activity on antigen-induced proliferation of human peripheral blood mononucleate cells

R. Berko, K. Seissman, M. Colvin, R. C. Bocian, S. Ben-Efraim and S. Dray — 825 Tumoricidal and immunomodulatory activities of drugs and implications for therapy of mice bearing a late stage MOPC-315 plasmacytoma

J. C. Lee, D. E. Griswold, B. Votta and N. Hanna — 835 Inhibition of monocyte IL-1 production by the anti-inflammatory compound, SK&F 86002

H. Kohno, M. Yamazaki, N. Jyumonji, N. Yamaguchi and S. Odashima — 845 An investigation of the immune suppression induced by some saikosaponin derivatives

A. Durandy, P. Smets, R. Zalisz and C. Griscelli — 851 The effect of RU 41740 on the *in vitro* maturation of human B-cells

J. F. Jeannin, P. Lagadec, H. Pelletier, D. Reisser, N. O. Olsson, G. Chihara and F. Martin — 855 Regression induced by lentinan, of peritoneal carcinomatoses in a model of colon cancer in rat

F. Floc'h and J. Poirier — 863 Immunopotentiating activities of a low molecular weight lipopeptide, RP 56 142—studies in infectious models

J.-C. Petit, B. Burghoffer, G. Richard and G.-L. Daguet — 875 Kinetics of interleukin-1 production by macrophages during infection with *Listeria monocytogenes*

H. Viland and H. Blomgren — 879 Human monocytes exposed to Biostim™ (RU 41740) alter lymphocyte mitogenesis: mechanisms of action

Volume 10, Number 7 (*Cont'd*)

Immunotoxicology

Research Papers

N. J. Snoeij, A. H. Penninks and W. Seinen — 891 — Dibutyltin and tributyltin compounds induce thymus atrophy in rats due to a selective action on thymic lymphoblasts

S. In, M. Dueymes and G. J. Fournié — 901 — Beta blockers may induce in C57BL/6 mice a polyclonal activation of lymphocytes which is not mediated by beta adrenergic receptors

An Invitation to join the International Society for Immunopharmacology — i

General Information and Instructions to Authors — iii

Volume 10 Number 8

Research Papers

P. Conti, M. Reale, P. U. Angeletti and C. A. Dinarello — 907 — Restoration of anti-interleukin-1 depressed natural killer activity by human recombinant interferon α or γ, human recombinant interleukin-2 and indomethacin

M. Radermecker, M. Rommain, M. P. Maldague, T. Bury and P. Smets — 913 — Increase in the number and the phagocytic function of guinea pig pulmonary and peritoneal macrophages following oral administration of RU 41740, a glycoprotein extract from *Klebsiella pneumoniae*

M. L. Villa, F. Valenti, M. Mantovani, F. Scaglione and E. Clerici — 919 — Macrolidic antibiotics: effects on primary *in vitro* antibody responses

E. Wałajtys-Rode, A. Dabrowski, H. Grubek-Jaworska, B. Machnicka and W. Droszcz — 925 — Binding of dexamethasone and its effect on histamine release from rat mast cells

R. J. Al-Attiyah, G. M. Bahr, O. Strannegard, L. Chedid and K. Behbehani — 931 — *In vitro* regulation by muramyl dipeptide of interferon production from peripheral blood mononuclear cells of healthy volunteers

M. Giordano, J. R. Geffner, A. Prat, M. S. Palermo, G. P. Serebrinsky and M. A. Isturiz — 939 — Cyclophosphamide modulates arachidonic acid metabolism by peritoneal macrophages

E. Brummer, L. H. Hanson and D. A. Stevens — 945 — Gamma-interferon activation of macrophages for killing of *Paracoccidioides brasiliensis* and evidence for nonoxidative mechanisms

Volume 10, Number 8 (*Cont'd*)

D. R. Germolec, G. C. Clarke, J. A. Blank, G. Wiegand and M. I. Luster — 953 — Biochemical events associated with inhibition of B-cell proliferation by phorbol diesters

Short Communications

D. Womble and J. H. Helderman — 967 — Enhancement of allo-responsiveness of human lymphocytes by acemannan (Carrisyn™)

J. F. Williams — 975 — Carbon tetrachloride hepatotoxicity in endotoxin tolerant and polymyxin B-treated rats

Immunotoxicology

Research Papers

L. Escoula, M. Thomsen, D. Bourdiol, B. Pipy, S. Peuriere and F. Roubinet — 983 — Patulin immunotoxicology: effect on phagocyte activation and the cellular and humoral immune system of mice and rabbits

N. Inamura, M. Hashimoto, K. Nakahara, Y. Nakajima, M. Nishio, H. Aoki, I. Yamaguchi and M. Kohsaka — 991 — Immunosuppressive effect of FK506 on experimental allergic encephalomyelitis in rats

M. E. Kammüller and W. Seinen — 997 — Structural requirements for hydantoins and 2-thiohydantoins to induce lymphoproliferative popliteal lymph node reactions in the mouse

Volume Contents and Author Index to Volume 10, 1988 — i

An Invitation to join the International Society for Immunopharmacology — xix

General Information and Instructions to Authors — xxi